## INTRODUCTION

## TRANSPORTATION ASSET MANAGEMENT

The Michigan Department of Transportation (MDOT) is responsible for overseeing and maintaining a vast infrastructure. MDOT customers are Michigan's residents, businesses and visitors who expect transportation professionals to manage transportation assets in an **effective**, **efficient** and **reliable** manner. They rely on us to be **good stewards** of the resources entrusted to us. MDOT accomplishes this through a process known as **asset management**.

The asset management process is predicated on the principles of stewardship of public resources, accountability to customers and continuous improvement. It is based on **managing for results** by focusing on performance.

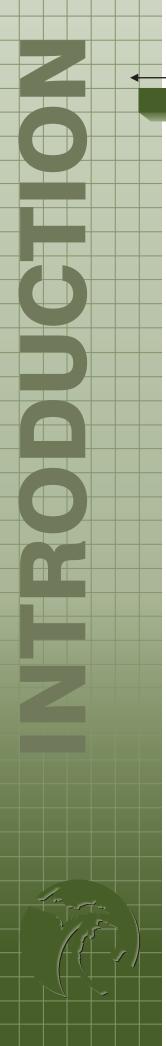
As noted by the organization, National Performance Review, "Most public managers work in environments that have echoed for years with rising demands for **performance**, **accountability**, and **results**. Citizens and elected officials are demanding tangible returns on the dollars they invest. Managers at every level of the intergovernmental system are moving toward improved accountability by managing for results."<sup>2</sup>

As good stewards, we can no longer be content to simply account for assets. Rather, we must aggressively ensure **proper use and performance** of those assets.

This booklet introduces you to MDOT's transportation asset management process. It will show you that asset management is the way we do business!

## MDOT Transportation Assets - 1999

- 9,700 Miles of state highway
- 5,670 Bridges and culverts
- More than 700 miles of railroad
- 215 Carpool lots
- 2,400 Trucks, vans and cars
- 450,000 Signs; 4,025 traffic & 12,328 freeway lights
- 8 Million feet of guardrail and 4,500 miles of fence
- 105 Garage, sign, maintenance/service & storage buildings
- One Central Office, 7 region offices, 25 transportation service centers
- 83 Safety rest areas and 13 Welcome Centers
- 85 Roadside Parks, 27 scenic turnouts, 41 picnic sites
- 163 Pumphouses, 188 water wells
- 54 Sewage disposal facilities & 64,000 catch basins
- 40,500 Acres that must be maintained



## ASSET MANAGEMENT SOURCES

The following sources have been used in the preparation of this booklet:

- 1. Michigan Transportation Facts & Figures, (MDOT, December 1999)
- 2. Reaching Public Goals: Managing Government For Results, (National Performance Review, October 1996).
- 3. Government Performance and Results Act of 1993, (U.S. Congress)
- **4.** Executive Order 12893: Principles for Federal Infrastructure Investments, (President William J. Clinton, The White House, January 26, 1994)
- 5. Concepts Statement No. 2, Service Efforts and Accomplishments Reporting, (Governmental Accounting Standards Board, April 1994)
- **6**. MCL 247.651g
- 7. Statement No. 34, "Overview," (Governmental Accounting Standards Board, no date given in document)
- **8.** Asset Management Primer, (USDOT, December 1999)
- New Rules For Reporting Infrastructure Information To Be Enacted For State & Local Governments, (Governmental Accounting Standards Board Newsletter, April 19, 1999)

- Performance Measurement and Performance Based Management: An Interview With Joseph S. Wholey, (The Inter-Agency Benchmarking & Best Practices Council, September 11, 1998)
- **11**. Michigan Department of Transportation 1997 Business Plan, (MDOT, 1997; Rev. 1999)
- **12**. Measuring And Improving Infrastructure Performance, (National Research Council, 1995)
- **13.** Serving The American Public: Best Practices In Performance Measurement, (National Performance Review, June 1997)
- **14.** 21<sup>st</sup> Century Asset Management: Executive Summary, (Center for Infrastructure and Transportation Studies, Rensselaer Polytechnic Institute, October 1997)
- **15.** Pay Now Or Pay Later: Controlling Cost Of Ownership From Design Throughout The Service Life Of Public Buildings, (National Research Council, 1991)
- **16**. Asset Management Peer Exchange, (American Association of State Highway & Transportation Officials/Federal Highway Administration)
- **17**. Life Cycle Cost Analysis in Pavement Design (USDOT/FHWA, September 1998)